
FIRE FACT NO. 047 CHECKLIST(s) : 99
TITLE : HOOD SUPPRESSION SYSTEMS
CHECKLIST ITEM(s) : 99-51, 52, 53, 54, 55, 56
REFERENCE(s) : K.S.A. 31-133
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Hood suppression systems are installed to provide protection for specific hazards due to the production of grease laden vapors from commercial cooking equipment. Hazardous operations require increased ventilation and special hood systems designed and installed to maximize protection of the hazard.

The ENDSS protocol addresses the requirements of these special systems. Special hazards may not only need proper "Separation" but also "Suppression" to isolate and defend the increased fire threats from spread and contamination of the exit ways.

Background

The Kansas State Fire Marshal Office (KSFMO) is required by K.S.A. 31-133 to adopt reasonable rules and regulations for the safeguarding of life and property from fire and explosions.

In addition, the KSFMO is required to act as the Authority Having Jurisdiction (AHJ) in specific occupancies. Resources are dedicated to the "priority" facilities having the most vulnerable occupants. They are:

- Assembly, including worship, entertainment, amusement, drinking, and eating: including theaters, auditoriums, restaurants, cafeterias, gyms, churches, conference rooms, etc.
- Educational, including private schools, pre-schools, daycare, childcare centers, and state institutions including regents universities.
- Health care, including hospitals, "adult care facilities", nursing homes, ambulatory care centers, and residential board and care facilities.
- Correction and detention.

The KSFMO has adopted via regulation, the following codes and standards for the purpose of fulfilling KSA 31-133 and ensuring a satisfactory level of fire protection and life safety.

- The Uniform Building Code, 1997
- The Uniform Fire Code , 1997, Section 1006
- The Uniform Mechanical Code, 1996, Chapter 5

Later editions of the above codes may be approved for use by the KSFMO.

Existing systems shall be maintained according to the applicable codes and standards listed above.



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By adopting these minimum standards, the KSFMO is requiring a minimum level of protection be provided through system design, installation, inspection, and maintenance.

Requirements:

- Ventilation hoods shall be of approved construction and properly installed.
- The hood and equipment shall be cleaned at frequent intervals.
- A certified firm shall professionally install an approved suppression system.
- The suppression system shall include manual activation pulls that are easily accessible to the operator.
- Suppression systems must be serviced semi annually by a certified firm.
- Service shall include:
 - Testing the operation of the system,
 - Activation of automatic fuel or power shutoffs,
 - Annual replacement of the fusible links,
 - Replaced fusible links left on site,
 - Suppression system service checklist – completed, signed, and dated.
 - Completed company service tag

A supplemental handheld fire extinguisher with a 40 B:C or Class K rating shall be provided in proximity of the hazardous operation and shall be serviced annually.

Service and maintenance information is found in Fire Facts 005, 006, 007, and 044. Documentation of service and maintenance shall be kept at the facility for review.

Application

This policy applies to the following facilities and situations:

- New system installations.
 - Existing system additions, alterations, and other changes.
- Other non-priority occupancies will be included as appropriate